

Work Order ID 137365-2

137365

September 25, 2015 10:52:26 AM

Page 1

Item ID: D4857-M Accept
 Revision ID: *N9000040100* Setup Start *NS1*
 Item Name: Wiper Deflector Stop *NS2*
 Start Date: 9/25/2015 Start Qty: 14.00 *14*
 Required Date: 10/16/2015 Req'd Qty: 14.00 *14*
 Reference: Cust Item ID:
 Customer:

Approvals: Process Plan: SK Date: Sept 25/15 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4857	F								

100 0.00

100

Purchasing

Purchasing

Memo

Issue P/O: 29927
 Possible supplier: CARBON BY DESIGN
 Manufacture as per dwg D4857-M
 Prime Deflector as per dwg (SEE NOTE 4)
 Certificate of Conformity release note is required.

CZ SEP 29 2015 14

5X NOV 20 2015

DAS
6
9-29

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Packaging

Memo

0.00

9 DAS
6
9-29 OCT 23 2014

Work Order ID 137365

September 25, 2015 10:52:26 AM

137365

Page 2

Item ID: D4857-M Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Wiper Deflector
 Start Date: 9/25/2015 Start Qty: 14.00 ***14*** Cust Item ID:
 Required Date: 10/16/2015 Req'd Qty: 14.00 ***14*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

120

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

(5)

DAS
38
9-89

NOV 23 2015

130

130

Packaging

Packaging

Identify as per dwg & Stock Location 8CK/32 0.00

Memo

0.00

S

MCS 15-11-24

140

140

QC

Quality Control

QC21- Final Inspection - Work Order Release 0.00

Memo

0.00

MCS 15-11-25

MCS 15-11-24

Picklist Print

Tuesday, November 24, 2015 1:40:51 PM

Work Order ID: 137365

137365

Parent Item: D4857-M

D4857-M

Parent Item Name: Wiper Deflector

Start Date: 9/25/2015

Required Date: 10/16/2015

Start Qty: 14.00

Required Qty: 14.00

Comments: IPP REV:A 14.05.21 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D4857-P

Purchased

No

Each

5.0000

14

D4857-P

Wiper Deflector

Location

Loc Qty

Loc Code

ST

5

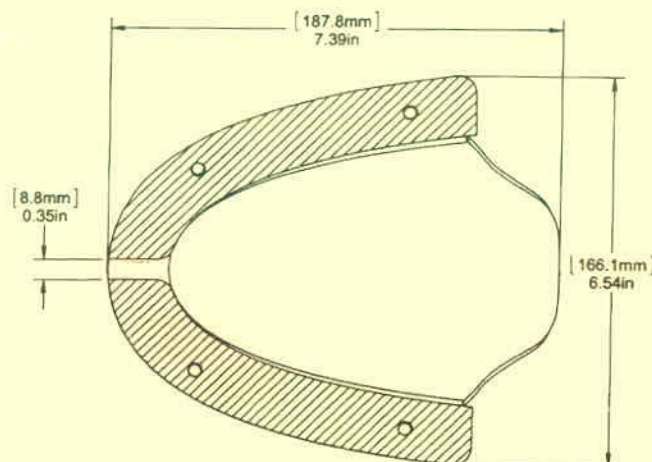
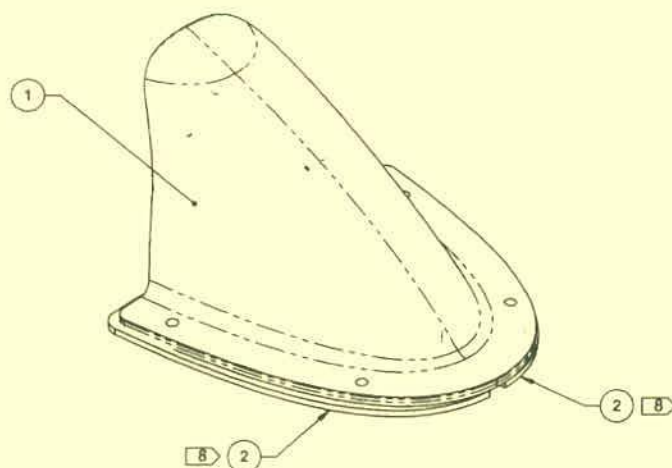
137365

5

NOV 24 2015

NOV 24 2015

ITEM	QTY	P/N	DESCRIPTION
	X	D4857-041	WIPER DEFLECTOR ASSY
1	1	D4857-1	WIPER DEFLECTOR
2	2	D4944-1	GASKET



D4857-041 WIPER DEFLECTOR ASSY A

RELEASED

2015 JUN 08

ECN 15-582 *em*

20150925 SH 137365

F	SHT 1 ADDED -041. ADDED D4857-2M (SHEET 8) AND RELABELED D4857-M TO D4857-1M (ZN B5-7). UPDATED D4757-044 (ZN B5-3). REVISED NOTES 1, 8 AND 10 (ZN A8-4, ZN A8-5, ZN A8-6, ZN A8-7, ZN A8-8). UPDATE PART WEIGHTS	AK / AJS	15.06.03
E	REVISE NOTE 6) (ZN A8-1, A8-2, A8-3); AND NOTE 8) (ZN A8-1, A8-2, A8-3)	AK	14.06.05
D	ADDED D4857-043 (ZN C7-1), D4857-044 (ZN C7-2), D4857-3 (ZN C7-4), D4857-4 (ZN C7-5) AND D4857-M (ZN C7-6)	AK	14.05.13
C	ADDED 4 MOUNTING HOLES	DW	13.12.09
B	REVISED BOM, DRAWING VIEWS, NOTES	PB	13.08.13
A	NEW RELEASE	DB	13.05.23
REV	DESCRIPTION	BY	DATE

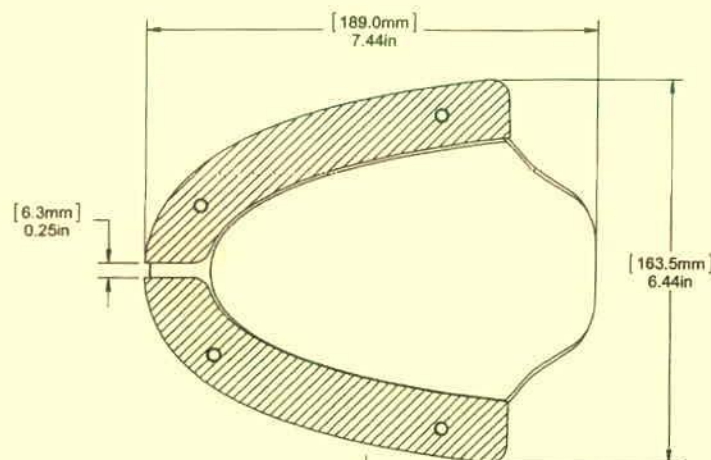
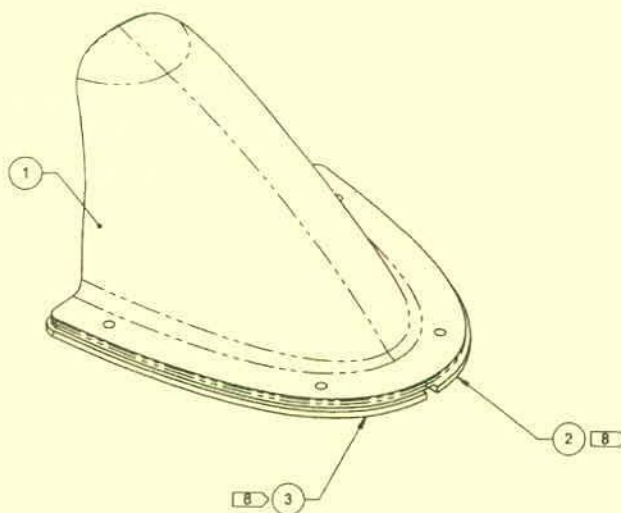
APPROVED

DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	CP	DRAWING NO.	REV. F
MFG. APPR.	DD	D4857	SHEET 1 OF 8
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-041, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
- 7) WEIGHT: 0.38 lbs (0.17 kg)
- 8) BOND D4944-1 GASKETS TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

ITEM	QTY -044	P/N	DESCRIPTION
	X	D4857-044	WIPER DEFLECTOR ASSEMBLY, RH
1	1	D4857-4	WIPER DEFLECTOR
2	1	D5117-5	GASKET
3	1	D5117-7	GASKET



D4857-044 WIPER DEFLECTOR ASSEMBLY, RH

RELEASED

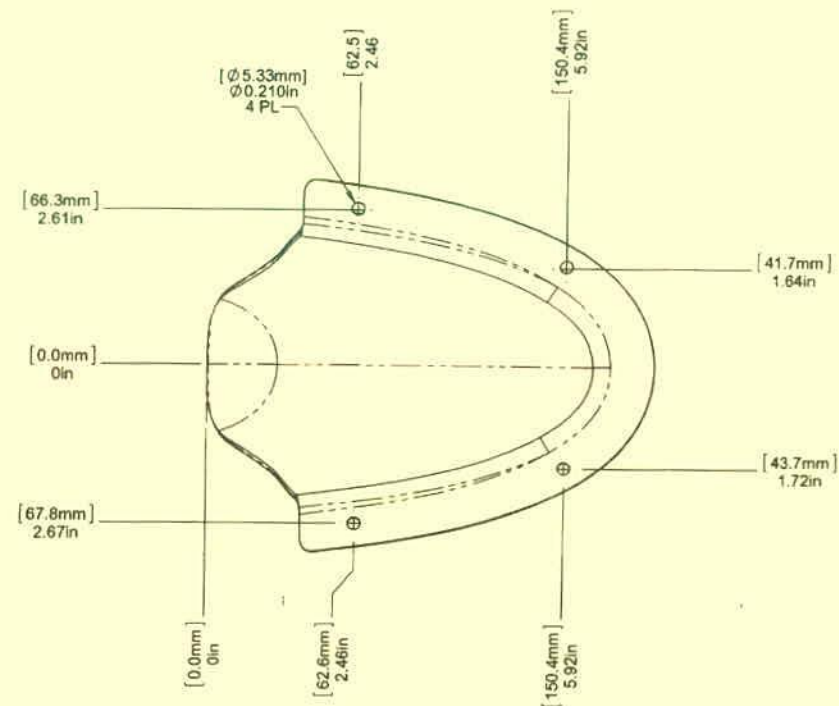
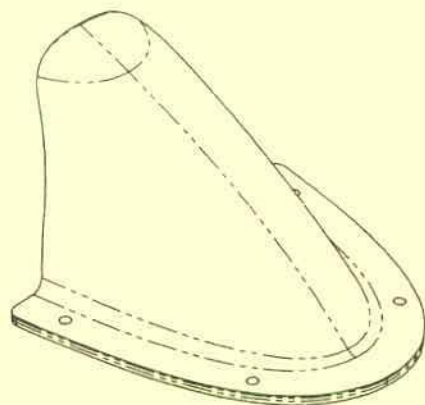
2015 JUN 08

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-044, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
- 7) WEIGHT: 0.38 lbs (0.17 kg)
- 8) BOND D5117-5/-7 GASKETS TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

APPROVED

DESIGN	DW	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	DRAWING NO.	REV. F
MFG. APPR.	DD	D4857	SHEET 3 OF 8
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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D4857-1 WIPER DEFLECTOR

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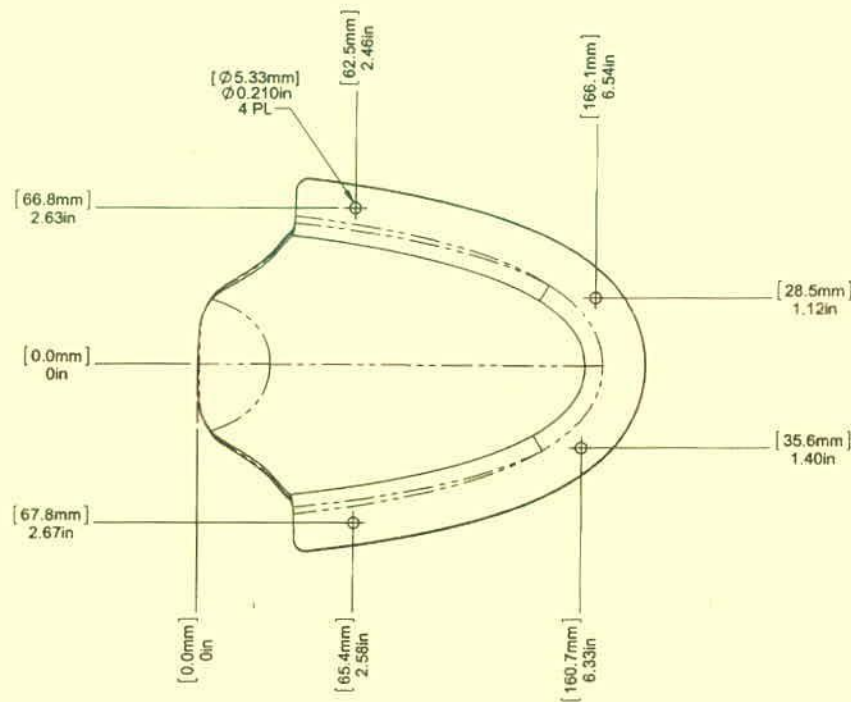
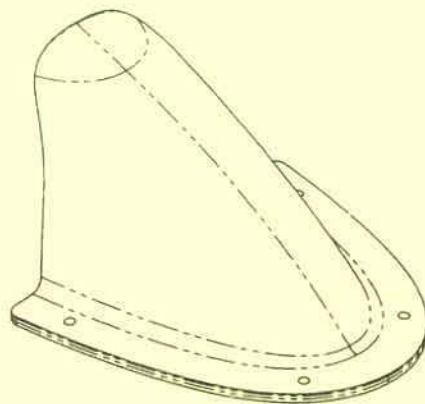
2015 JUN 08

NOTES:

- 1) MATERIAL: MADE FROM D4857-M
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.35 lbs (0.16 kg)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-1-F.IGES

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DRAWN	AJS		
CHECKED	CP	DRAWING NO.	REV. F
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DE APPR.	DS	WIPER DEFLECTOR	NTS
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D4857-3 WIPER DEFLECTOR, LH

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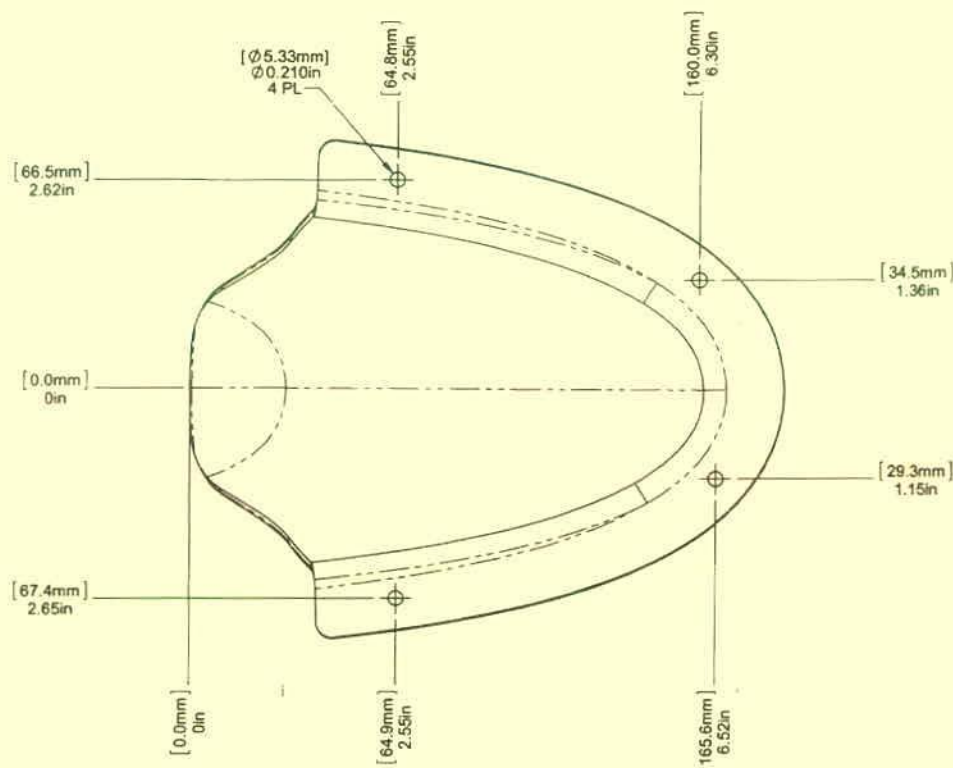
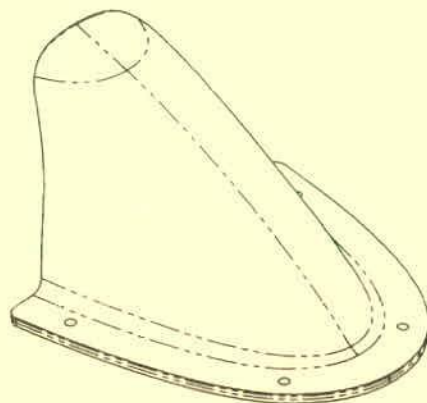
2015 JUN 08

NOTES:

- 1) MATERIAL: MADE FROM D4857-M
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.35 lbs (0.16 kg)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-3-F.IGES

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MFG. APPR.	DD	D4857	SHEET 5 OF 8
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D4857-4 WIPER DEFLECTOR, RH

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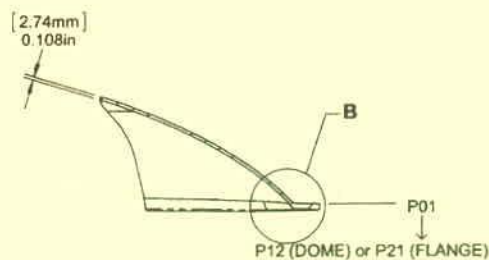
2015 JUN 08

NOTES:

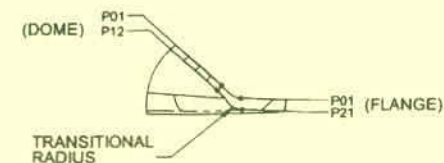
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- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.35 lbs (0.16 kg)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-4-F.IGES

APPROVED

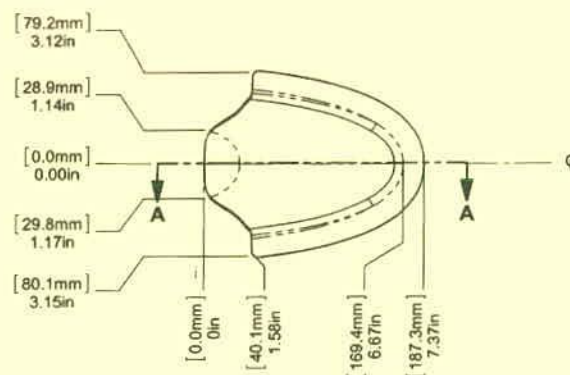
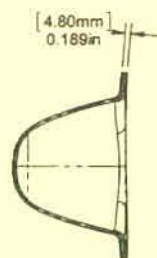
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DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	DRAWING NO.	REV. F
MFG. APPR.	DD	D4857	SHEET 6 OF 8
APPROVED	WM	TITLE	SCALE
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SECTION A-A



DETAIL B



D4857-M WIPER DEFLECTOR

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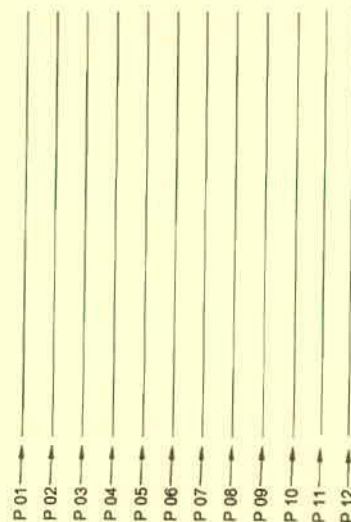
2015 JUN 08

NOTES:

- 1 MATERIAL: KEVLAR #285/353 4H SATIN, EPOXY PREPREG, 250°F CURE, 40% R/C
- 2 MATERIAL: CARBON FIBER PREPREG, ALDILA PREPREG SYSTEM 3K2X2-FR250-204/40 T300.
- 3 MATERIAL: ALDILA #120 E-GLASS AR250 WITH 48% RC.
- 4 FINISH: PRIMER IAW MIL-P-85582, 2-7 MIL MAX.
- 5 TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 6 UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 7 BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 8 IDENTIFICATION: N/A
- 9 WEIGHT: 0.35 lbs (0.16 kg)
- 10 PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-M-F.IGES
- 11 SEE SHEET 8 FOR LAYUP SCHEDULE. MANUFACTURE IAW MPP 145. CURE 250°F FOR 4 HOURS.

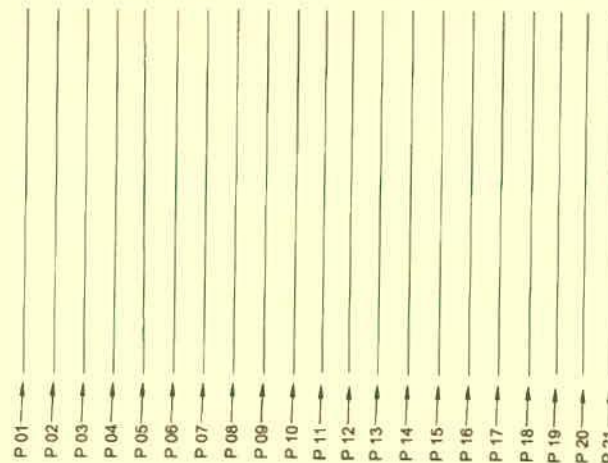
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DESIGN	DW	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	DRAWING NO	REV. F
MFG. APPR	DD	D4857	SHEET 7 OF 8
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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LAYUP OF LAYERS (DOME)

LAMINATE - .108in (12 LAYERS)			
PLY	WARP ANGLE	MATERIAL	THICKNESS
01	90	[1]	.008-.010
02	0	[1]	.008-.010
03	90	[2]	.008-.010
04	0	[2]	.008-.010
05	90	[2]	.008-.010
06	0	[2]	.008-.010
07	90	[2]	.008-.010
08	0	[2]	.008-.010
09	90	[2]	.008-.010
10	0	[2]	.008-.010
11	90	[2]	.008-.010
12	0	[2]	.008-.010



LAYUP OF LAYERS (FLANGE)

LAMINATE - .189in (21 LAYERS)			
PLY	WARP ANGLE	MATERIAL	THICKNESS
01	90	[1]	.008-.010
02	0	[1]	.008-.010
03	90	[2]	.008-.010
04	0	[2]	.008-.010
05	90	[2]	.008-.010
06	0	[2]	.008-.010
07	90	[2]	.008-.010
08	0	[2]	.008-.010
09	90	[2]	.008-.010
10	0	[2]	.008-.010
11	90	[2]	.008-.010
12	0	[2]	.008-.010
13	90	[2]	.008-.010
14	0	[2]	.008-.010
15	90	[2]	.008-.010
16	0	[2]	.008-.010
17	90	[2]	.008-.010
18	0	[2]	.008-.010
19	90	[2]	.008-.010
20	0	[2]	.008-.010
21	90	[3]	.005

APPROVED

DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	CP	DRAWING NO.	REV. F
MFG. APPR.	DD	D4857	SHEET 8 OF 8
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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RELEASED

2015 JUN 08



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO29927**

Purchase Order Date 9/29/2015 10:15:45 AM

PO Print Date 9/29/2015

Page Number 1 of 2

Order From :

VU-CBD001

Ship To : DART AEROSPACE LTD

CARBON BY DESIGN
4128 AVENIDA DE LA PLATA
OCEANSIDE, CALIFORNIA 92056
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 760-643-1300

Ship To Contact

Ship To Phone

Ship Via: FedEx PI ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D4857-P AS PER DWG D4857 REV. F B137365	Wiper Deflector	10/23/2015 Yes 10/23/2015	FN	14.00 Each <i>15/10/23</i> <i>Rec'd 9.5.1</i> <i>Rec'd 5.1</i>	\$695.00	\$9,730.00
Line Total:							\$9,730.00
2	71401-45 Procurement Quality Clauses A004 faa-pma/tso A005 right of entry A016 personnel qualification A025 certification of conformance A040 notification of quality escape A041 quality management A042 dart notification by supplier A043 retention of quality documents	PROCUREMENT QUALITY CLAUSES	10/23/2015 No 10/23/2015		1.00 <i>15/10/20</i> <i>5.0</i>	\$0.00	\$0.00

PO Instructions: Fedex Acc#151793240

Note:

9/29/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO29927**

Purchase Order Date 9/29/2015 10:15:45 AM

PO Print Date 9/29/2015

Page Number 2 of 2

Order From :

VU-CBD001

Ship To : DART AEROSPACE LTD

CARBON BY DESIGN
4128 AVENIDA DE LA PLATA
OCEANSIDE, CALIFORNIA 92056
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

760-643-1300

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Line Total: \$0.00

PO Total: \$9,730.00

PO Instructions: Fedex Acc#151793240

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 9/29/2015



carbon by design

4128 Avenida De La Plata, Oceanside, CA 92056
Phone: 760-643-1300 Fax: 760-643-1333

www.carbonbydesign.com

Invoice

Date: 11/19/2015

Invoice # 18833

PO. No.: PO29927

Sales Order#: 8988

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Fed-Ex #151793240

Please Ship To:

Dart Aerospace LTD
1270 Aberdeen
Hawkesbury, ON K6A 1K7
Canada

Customer Phone	Terms	Rep	Ship Date	Ship Via	Account Status
613-632-5200	Net 30	JB	11/19/2015	FedEx Nex...	ww

Item	Line #	Qty	Description	U/M	Unit Price	Amount
120.2083	1	5	D4857-M, Dart Wiper Deflector S/N: 18833-1/18833-5	ea	695.00	3,475.00
<i>15/11/20</i> <i>JB</i>						

Thank you for your business.

Total \$3,475.00

All returns must be accompanied by a RMA #. Please call customer service at 760-643-1300 to receive a RMA number. Products damaged in shipment must be immediately documented and brought to the attention of Carbon by Design. Any products which have been installed/used are not subject to return. All returned items, unless built to print, are subject to a 25% restocking fee. Canadian Customers are responsible for all brokerage fees, any fees not paid by the customer at the time of delivery are subject to further charges. No returns are accepted after 30 days.

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SUBJECT:
MANUFACTURING PROCESS PROCEDURE
MANUFACTURING COMPOSITE COMPONENTS

DOCUMENT NO:
MPP-145
Rev. A
02/27/15

APPENDIX B

Layup Schedule Record

Laminator-AA01

Laminator:	Chris Lugo
Location	CRD
Customer No.	P029927
Product No.	D487-M
Serial No.	18833-1
Classified	N/A

Serial Number-AA04

Unit Serial No.	18833-1
Roll Cert.	9333/10486/11688
QA Inspection	<i>[Signature]</i>

Environment-AA02

Lab No.:	Killer whale
Lamination Start Temp.	70 ☒ F ☐ C
Lamination Finish Temp.	72 ☒ F ☐ C
Humidity	$\emptyset$ ☐ rising ☐ falling
Date	11-2-15 ☒ lam 11-3-15 ☒ fin

Lamination-AA05

Resin System:	☒ epoxy ☐ vinyl ester ☐ polyester ☐ phenolic ☐ flex ☐ other		
Epoxy	☐ 574A ☐ 2932A ☐ 2110A ☒ Other	Hardener	☐ 734B ☐ 974B ☐ 8992B ☒ Other
Fiber Content	40+/-2%	Type	☐ Cosmetic ☒ Structural ☐ Multi Load

4X 11-18-15

Process-AA03

Process Type:	☐ open mold ☐ vac bag ☐ VARTM ☒ prepreg ☐ RTM ☐ HP Bladder		
Cure	☐ room ☐ heated ☒ oven ☐ autoclave	Tool	☐ soft ☐ carbon ☒ aluminum ☐ REN ☐ Foam
Cure Temp	260 ☒ F ☐ C	P.C. Temp	260 ☒ F ☐ C
Cure Time	4hrs	P.C. Time	4hrs
Release	☐ wax ☒ semi-perm	Degas	☒ yes ☐ no



SUBJECT:
MANUFACTURING PROCESS PROCEDURE
MANUFACTURING COMPOSITE COMPONENTS

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APPENDIX B

Layup Schedule Record

Laminator-AA01

Laminator:	Chris Lugo
Location	EBD
Customer No.	P029927
Product No.	D4857-M
Serial No.	18833-2
Classified	N/A

Serial Number-AA04

Unit Serial No.	18833-2
Roll Cert.	9333/10486/11682
QA Inspection	WJ

Environment-AA02

Lab No.:	Killer Whale
Lamination Start Temp.	71 ☒ °F ☐ °C
Lamination Finish Temp.	73 ☒ °F ☐ °C
Humidity	Ø ☐ rising ☐ falling
Date	11-3-15 ☒ lam 11-4-15 ☒ fin

Lamination-AA05

Resin System:	☒ epoxy ☐ vinyl ester ☐ polyester ☐ phenolic ☐ flex ☐ other		
Epoxy	☐ 574A ☐ 2932A ☐ 2110A ☒ Other	Hardener	☐ 734B ☐ 974B ☐ 8992B ☒ Other
Fiber Content	40% ± 2%	Type	☐ Cosmetic ☒ Structural ☐ Multi Load

WJ 11-18-15

Process-AA03

Process Type:	☐ open mold ☐ vac bag ☐ VARTM ☒ prepreg ☐ RTM ☐ HP Bladder		
Cure	☐ room ☐ heated oven ☒ autoclave	Tool	☐ soft ☐ carbon ☒ aluminum ☐ REN ☐ Foam
Cure Temp	260 ☒ °F ☐ °C	P.C. Temp	260 ☒ °F ☐ °C
Cure Time	46hrs	P.C. Time	46hrs
Release	☐ wax ☒ semi-perm	Degas	☒ yes ☐ no

DART

AEROSPACE

SUBJECT:
MANUFACTURING PROCESS PROCEDURE
MANUFACTURING COMPOSITE COMPONENTS

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APPENDIX B

Layup Schedule Record

Laminator-AA01

Laminator:	Chris Lugo
Location	CBD
Customer No.	P029927
Product No.	D4857-M
Serial No.	18833-3
Classified	N/A

Serial Number-AA04

Unit Serial No.	18833-3
Roll Cert.	9333/10486/11688
QA Inspection	WJH

Environment-AA02

Lab No.:	Killer Whale
Lamination Start Temp.	70 ☒ °F ☐ °C
Lamination Finish Temp.	73 ☒ °F ☐ °C
Humidity	0 ☐ rising ☐ falling
Date	11-4-15 ☒ lam 11-5-15 ☒ fin

Lamination-AA05

Resin System:	☒ epoxy ☐ vinyl ester ☐ polyester ☐ phenolic ☐ flex ☐ other
Epoxy	☐ 574A ☐ 2932A ☐ 2110A ☒ Other
Hardener	☐ 734B ☐ 974B ☐ 8992B ☒ Other
Fiber Content	40% ☒ 2%
Type	☐ Cosmetic ☒ Structural ☐ Multi Load

WJH 11-18-15

Process-AA03

Process Type:	☐ open mold ☐ vac bag ☐ VARTM ☒ prepreg ☐ RTM ☐ HP Bladder
Cure	☐ room heated ☒ oven autoclave
Tool	☐ soft carbon ☒ aluminum REN Foam
Cure Temp	260 ☒ °F ☐ °C
Cure Time	467
Release	☐ wax ☒ semi-perm
Degas	☒ yes ☐ no



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MANUFACTURING PROCESS PROCEDURE
MANUFACTURING COMPOSITE COMPONENTS

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APPENDIX B

Layup Schedule Record

Laminator-AA01

Laminator:	Chris Lugo
Location	CB0
Customer No.	P029927
Product No.	D4857-M
Serial No.	18833-4
Classified	N/A

Serial Number-AA04

Unit Serial No.	18833-4
Roll Cert.	9333/10486/11688
QA Inspection	W

Environment-AA02

Lab No.:	Killer White
Lamination Start Temp.	70 ☒ °F ☐ °C
Lamination Finish Temp.	72 ☒ °F ☐ °C
Humidity	Ø ☐ rising ☐ falling
Date	11-5-15 ☒ lam 11-6-15 ☒ fin

Lamination-AA05

Resin System:	☒ epoxy ☐ vinyl ester ☐ polyester ☐ phenolic ☐ flex ☐ other		
Epoxy	☐ 574A ☐ 2932A ☐ 2110A ☒ Other	Hardener	☐ 734B ☐ 974B ☐ 8992B ☒ Other
Fiber Content	40% ± 2%	Type	☐ Cosmetic ☒ Structural ☐ Multi Load
W 11-19-15			

Process-AA03

Process Type:	☐ open mold ☐ vac bag ☐ VARTM ☒ prepreg ☐ RTM ☐ HP Bladder		
Cure	☐ room ☐ heated ☒ oven ☐ autoclave	Tool	☐ soft ☐ carbon ☒ aluminum ☐ REN ☐ Foam
Cure Temp	260 ☒ °F ☐ °C	P.C. Temp	260 ☒ °F ☐ °C
Cure Time	46h3	P.C. Time	46h3
Release	☐ wax ☒ semi-perm	Degas	☒ yes ☐ no

DART

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APPENDIX B

Layup Schedule Record

Laminator-AA01

Laminator:	Chris Lugo
Location	EBD
Customer No.	P029927
Product No.	D4857-M
Serial No.	18833-5
Classified	N/A

Serial Number-AA04

Unit Serial No.	18833-5
Roll Cert.	9333/10486/11688
QA Inspection	24

Environment-AA02

Lab No.:	Killer Whale
Lamination Start Temp.	71 ☒ °F ☐ °C
Lamination Finish Temp.	74 ☒ °F ☐ °C
Humidity	Ø ☐ rising ☐ falling
Date	11-5-15 ☒ lam 11-8-15 ☒ fin

Lamination-AA05

Resin System:	☒ epoxy ☐ vinyl ester ☐ polyester ☐ phenolic ☐ flex ☐ other		
Epoxy	☐ 574A ☐ 2932A ☐ 2110A ☒ Other	Hardener	☐ 734B ☐ 974B ☐ 8992B ☒ Other
Fiber Content	40+/-2%	Type	☐ Cosmetic ☒ Structural ☐ Multi Load

4/11-18-15

Process-AA03

Process Type:	☐ open mold ☐ vac bag ☐ VARTM ☒ prepreg ☐ RTM ☐ HP Bladder		
Cure	☐ room ☐ heated ☒ oven ☐ autoclave	Tool	☐ soft ☐ carbon ☒ aluminum ☐ REN ☐ Foam
Cure Temp	260 ☒ °F ☐ °C	P.C. Temp	260 ☒ °F ☐ °C
Cure Time	4hrs	P.C. Time	4hrs
Release	☐ wax ☒ semi-perm	Degas	☒ yes ☐ no

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Laminate #1

Appendix B – Layup Schedule Record

LAYER 1	☒ Carbon	<u>Material Size</u> x	☒ 0°	LAYER 7	☒ Carbon	<u>Material Size</u> x	☒ 0°
	☒ Kevlar		☒ 90°		☒ Kevlar		☒ 90°
	☒ S2 Glass		☒ 45°		☒ S2 Glass		☒ 45°
	☒ E Glass		☒ -45°		☒ E Glass		☒ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 2	☒ Carbon	<u>Material Size</u> x	☒ 0°	LAYER 8	☒ Carbon	<u>Material Size</u> x	☒ 0°
	☒ Kevlar		☒ 90°		☒ Kevlar		☒ 90°
	☒ S2 Glass		☒ 45°		☒ S2 Glass		☒ 45°
	☒ E Glass		☒ -45°		☒ E Glass		☒ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 3	☒ Carbon	<u>Material Size</u> x	☒ 0°	LAYER 9	☒ Carbon	<u>Material Size</u> x	☒ 0°
	☒ Kevlar		☒ 90°		☒ Kevlar		☒ 90°
	☒ S2 Glass		☒ 45°		☒ S2 Glass		☒ 45°
	☒ E Glass		☒ -45°		☒ E Glass		☒ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 4	☒ Carbon	<u>Material Size</u> x	☒ 0°	LAYER 10	☒ Carbon	<u>Material Size</u> x	☒ 0°
	☒ Kevlar		☒ 90°		☒ Kevlar		☒ 90°
	☒ S2 Glass		☒ 45°		☒ S2 Glass		☒ 45°
	☒ E Glass		☒ -45°		☒ E Glass		☒ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 5	☒ Carbon	<u>Material Size</u> x	☒ 0°	LAYER 11	☒ Carbon	<u>Material Size</u> x	☒ 0°
	☒ Kevlar		☒ 90°		☒ Kevlar		☒ 90°
	☒ S2 Glass		☒ 45°		☒ S2 Glass		☒ 45°
	☒ E Glass		☒ -45°		☒ E Glass		☒ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 6	☒ Carbon	<u>Material Size</u> x	☒ 0°	LAYER 12	☒ Carbon	<u>Material Size</u> x	☒ 0°
	☒ Kevlar		☒ 90°		☒ Kevlar		☒ 90°
	☒ S2 Glass		☒ 45°		☒ S2 Glass		☒ 45°
	☒ E Glass		☒ -45°		☒ E Glass		☒ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre

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Laminate #2
Appendix B – Layup Schedule Record

LAYER 1	☐ Carbon	<u>Material Size</u> x	☐ 0°	LAYER 7	☐ Carbon	<u>Material Size</u> x	☐ 0°
	☒ Kevlar		☒ 90°		☐ Kevlar		☒ 90°
	☐ S2 Glass		☐ 45°		☐ S2 Glass		☐ 45°
	☐ E Glass		☐ -45°		☐ E Glass		☐ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 2	☐ Carbon	<u>Material Size</u> x	☐ 0°	LAYER 8	☐ Carbon	<u>Material Size</u> x	☐ 0°
	☒ Kevlar		☐ 90°		☐ Kevlar		☒ 90°
	☐ S2 Glass		☐ 45°		☐ S2 Glass		☐ 45°
	☐ E Glass		☐ -45°		☐ E Glass		☐ -45°
	☒ Twill 2x2	☐ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 3	☒ Carbon	<u>Material Size</u> x	☐ 0°	LAYER 9	☒ Carbon	<u>Material Size</u> x	☐ 0°
	☐ Kevlar		☒ 90°		☐ Kevlar		☒ 90°
	☐ S2 Glass		☐ 45°		☐ S2 Glass		☐ 45°
	☐ E Glass		☐ -45°		☐ E Glass		☐ -45°
	☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 4	☒ Carbon	<u>Material Size</u> x	☐ 0°	LAYER 10	☒ Carbon	<u>Material Size</u> x	☐ 0°
	☐ Kevlar		☒ 90°		☐ Kevlar		☒ 90°
	☐ S2 Glass		☐ 45°		☐ S2 Glass		☐ 45°
	☐ E Glass		☐ -45°		☐ E Glass		☐ -45°
	☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 5	☒ Carbon	<u>Material Size</u> x	☐ 0°	LAYER 11	☒ Carbon	<u>Material Size</u> x	☐ 0°
	☐ Kevlar		☒ 90°		☐ Kevlar		☒ 90°
	☐ S2 Glass		☐ 45°		☐ S2 Glass		☐ 45°
	☐ E Glass		☐ -45°		☐ E Glass		☐ -45°
	☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre
LAYER 6	☒ Carbon	<u>Material Size</u> x	☐ 0°	LAYER 12	☒ Carbon	<u>Material Size</u> x	☐ 0°
	☐ Kevlar		☒ 90°		☐ Kevlar		☒ 90°
	☐ S2 Glass		☐ 45°		☐ S2 Glass		☐ 45°
	☐ E Glass		☐ -45°		☐ E Glass		☐ -45°
	☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre		☒ Twill 2x2	☒ 3k ☐ 12k	☐ dry ☒ pre
	☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ Uni	☐ 3k ☐ 12k	☐ dry ☐ pre
	☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre		☐ 5HS	☐ 3k ☐ 12k	☐ dry ☐ pre



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Appendix B – Layup Schedule Record

LAYER 13	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☒ 0° ☐ 90° ☐ 45° ☐ -45°	LAYER 20	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☐ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre
LAYER 14	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☒ 0° ☐ 90° ☐ 45° ☐ -45°	LAYER 21	☐ Carbon ☐ Kevlar ☐ S2 Glass ☒ E Glass	<u>Material Size</u> x	☐ 0° ☒ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☒ Twill 2x2 ☐ Uni ☐ 5HS	☐ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre
LAYER 15	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☒ 0° ☐ 90° ☐ 45° ☐ -45°	LAYER 22	☐ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☐ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☐ Twill 2x2 ☐ Uni ☐ 5HS	☐ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☐ pre ☐ dry ☐ pre ☐ dry ☐ pre
LAYER 16	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☒ 0° ☐ 90° ☐ 45° ☐ -45°	LAYER 23	☐ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☐ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☐ Twill 2x2 ☐ Uni ☐ 5HS	☐ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☐ pre ☐ dry ☐ pre ☐ dry ☐ pre
LAYER 17	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☒ 90° ☐ 45° ☐ -45°	LAYER 24	☐ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☐ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☐ Twill 2x2 ☐ Uni ☐ 5HS	☐ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☐ pre ☐ dry ☐ pre ☐ dry ☐ pre
LAYER 18	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☒ 0° ☐ 90° ☐ 45° ☐ -45°	LAYER 25	☐ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☐ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☐ Twill 2x2 ☐ Uni ☐ 5HS	☐ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☐ pre ☐ dry ☐ pre ☐ dry ☐ pre
LAYER 19	☒ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☒ 90° ☐ 45° ☐ -45°	LAYER 26	☐ Carbon ☐ Kevlar ☐ S2 Glass ☐ E Glass	<u>Material Size</u> x	☐ 0° ☐ 90° ☐ 45° ☐ -45°
	☒ Twill 2x2 ☐ Uni ☐ 5HS	☒ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☒ pre ☐ dry ☐ pre ☐ dry ☐ pre		☐ Twill 2x2 ☐ Uni ☐ 5HS	☐ 3k ☐ 12k ☐ 3k ☐ 12k ☐ 3k ☐ 12k	☐ dry ☐ pre ☐ dry ☐ pre ☐ dry ☐ pre

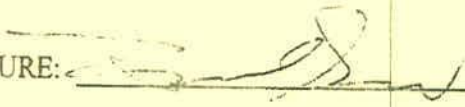
CERTIFICATE OF CONFORMANCE

Aldila Composite Materials hereby certifies that the materials or parts referenced below conform to all applicable requirements and specifications per the customer purchase order as noted. Any exception shall be itemized.

CUSTOMER	CARBON BY DESIGN
CUSTOMER PO NUMBER	9333
ACM SO NUMBER	501015
PRODUCT	120-AR250C-107/42 (1SP), 50"
CUSTOMER PART#	550.0140
ACM ITEM #	060937
BATCH	15-0121
ROLLS	1
TOTAL QUANTITY	310.0 LFT, 1292 SF
MFG DATE	2/5/2015
SHIPMENT DATE	2/10/2015
WARRANTY	at 0°F FOR 12 MONTHS
EXPIRATION DATE	2/5/2016

QUALITY ASSURANCE REPRESENTATIVE:

NAME: FREDERICK F. SAREMI

SIGNATURE: 

DATE: 2/10/2015

CERTIFICATE OF CONFORMANCE

Aldila Composite Materials hereby certifies that the materials or parts referenced below conform to all applicable requirements and specifications per the customer purchase order as noted. Any exception shall be itemized.

CUSTOMER	CARBON BY DESIGN
CUSTOMER PO NUMBER	10486
ACM SO NUMBER	501290
PRODUCT	3K2X2-FR250B-204/40 (2SP), 50"
CUSTOMER PART#	602.0001
ACM ITEM #	076903
BATCH	15-1170
ROLLS	1, 2
TOTAL QUANTITY	273 LFT, 1138 SF
MFG DATE	10/13/2015
SHIPMENT DATE	10/19/2015
WARRANTY	at 0°F FOR 6 MONTHS
EXPIRATION DATE	4/10/2016

QUALITY ASSURANCE REPRESENTATIVE:

NAME: FREDERICK F. SAREMI

SIGNATURE: 

DATE: 10/19/2015

CERTIFICATE OF CONFORMANCE**- RECERTIFICATION -**

CUSTOMER: CARBON BY DESIGN

Purchase Order Number: 9453

Sales Order Number: 11688

Product: AX-4112-285-50" RC38

Description: High Toughness, Flame Retardant

Description (ctd): Epoxy Aramid Prepreg

Batch Number: 91

Recertification Date: 8/24/2015

Warranty Expiration Date: 11/24/2015

Date of Manufacture: 2/17/2015

Storage Temperature: 40°F or below

Sales Order Quantity: 100 yd

Production Quantity: 100 yd

Test Report

Test	Requirement	Result	Test Method
Weight/psf	0.056 +/- 0.003	0.057	ATS-001
Volatiles/%	Report	2.239	ATS-002
Gel Time/second	Report	243	ATS-003
Flow/%	Report	10.727	ATS-004
Resin Content/%	38 +/- 4	38.995	ATS-005
Production Standard	Requirement		Test Method
Visual Inspection	Pass	Pass	ATS-013
Tack Level / Number	Medium / 3	Medium / 3	ATS-015
Nominal Core Diameter	6"	6"	ATS-013
Sides Coated	Two	Two	ATS-013
Color	Natural	Natural	ATS-013
Liner Configuration	White Paper / 2.5 mil Red Poly	White Paper / 2.5 mil Red Poly	ATS-013

This document certifies material supplied to this order to the following requirements:
Purchase order terms and conditions
Axiom Test Standards (where applicable)
All terms and conditions of the Purchase Order Agreement
Specifications as noted below

Specification(s):

Axiom Test Standard

Recertified in accordance with:

Axiom Materials Quality Procedure AQP-020

Customer Purchase Order No. Recertification

Sales Order No. 13545



Digitally signed

by Rob Lewis

Date:

2015.08.25

14:18:06 -07'00'

Signature of Authorized Agent

PRC-DeSoto International, Inc.

PPG Aerospace - Deft
17451 VON KARMAN AVE, IRVINE,
CA 92614-6295
Phone No. (800) 544-3338 or
(949) 474-0400

Certificate of Conformance

Pick List: P454476

Cust No. 771015
Bill-To: 771015B09
PRC ASC LOS ANGELES
Do not mail invoices:
aerospace_apinvoices@ppg.com
roxanne.rowe@ppg.com
CA 91342 USA
Phone: 818/549-7726
Ship-To: 7710150467
CARBON BY DESIGN
4128 AVENIDA DE LA PLATA
OCEANSIDE, CA 92056 USA
Phone:

Branch: BINT
Sales Order No.: S 7623
Total Cartons: .00

Customer P.O. LAD11085

Contract/Credit Auth
Number:

Mark For: FX ACCT# 573438523
CSR: JSR



Remarks:

Order Date	Ship Date	Terms	Freight Terms	Via	Service Rep
01/20/2015	01/22/2015	Net 30 Days	Freight Collect	Fedex Freight	ValleryR
Line	Order Qty	Product	Description / Reference Number	UOM	Unit Price

1	8	44GN098 1GK	MIL-PRF-85582E, TYPE I, CLASS N, 1-STEP MIX GALLON KIT	EA	8
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LMA-MR003E TYPE II CLASS 2 GRADE A; 5PTMRT09C
GRADE B: H MS 15-1100 TYPE I CLASS 2 GRADE N: PWA
36515C-3 and FMS 3027C FORM 3
P/N: DE44GN098XZZG2ST

Customer PO: 9312

Lot Number:

102728/102729

8

DOM: June 2014DOE: 6/2016 DOM of Repack: DOE of Repack:

Total Cartons: .00

Picked By:

Checked By:

1

1/21/2015

PPG Aerospace/PRC DeSoto International certifies that the above materials have been manufactured, tested and conforms to all requirements in accordance with applicable specifications. All test data pertaining to batch acceptance requirements defined by the specification for this material is on file and available for inspection upon request. For Non-US PPG Customers, we can only offer Technical Data/Test Reports for any ITAR or EAR restricted specifications with valid US export authorization

Christopher Tafel - Quality Assurance Specialist



carbon by design

CERTIFICATE OF CONFORMANCE

PO: No.: PO29927	Description: Dart Wiper Deflector	Inspector: ES	Packing Slip #: 18833
Program Dart	Drawing: D4857-M Rev F	Qty : 5	Serial Numbers: 18833-1/18833-2/18833-3/18833-4/18833-5

Work Requirements:

Statement of Work: See Traveler
Internal Process Doc.: See Traveler
Inspection Document: See Traveler
Manufacturing Process: Prepreg- Trapped Rubber
Security Requirement: Confidential

Approved Non-Conformances:	NO	Pending SDR/ECN:	NO
Disposition:	To Customer, Ship	Shipping method:	FedEx Next Day

ITAR WARNING –This document and its attachments may contain technical data, export of which is restricted by the International Traffic in Arms Regulations (ITAR) or the Export Administration Act (EAA) of 1979, as amended. Disclosure to foreign persons without prior U.S. Government approval is prohibited. Violations of these export laws and regulations are subject to severe civil and criminal penalties.

Certification Statement: Carbon by Design LP certifies the items listed above conform to all of the applicable work and quality standard required in the purchase order listed above and any additional work requirements referenced.

All in process quality standards have been met according to customer requirements and Carbon by Design internal quality and finish requirements. All materials Certification are available for inspection and will remain on file at Carbon by Design for a period of no less than ten years.

Finished Materials/Process Specifications:

Per Drawing Requirements

Additional Quality Clauses:

Per PO Requirements, 100% Inspection

Active Quality Systems: AS 9100 Rev C, ISO9001:2008

Quality Control Representative	Title	Signature	Date
Erik Schauer	Quality Inspector		11/18/15



carbon by design

4128 Avenida De La Plata - Oceanside, CA 92056
Phone: 760-643-1300 Fax: 760-643-1333
www.carbonbydesign.com

Packaging List

Date: 11/19/2015
Packaging List No. 18833
Cage Code: 4DG17
CBD Work Order No. 8988
Customer PO No.: PO29927

Billing Address:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Fed-Ex #151793240

Please Deliver To:

Dart Aerospace LTD
1270 Aberdeen
Hawkesbury, ON K6A 1K7
Canada

Customer Phone

613-632-5200

Terms

Net 30

Rep

JB

Ship Date

11/19/2015

Ship Via

FedEx Next Day

Item	Line #	Description	Qty	U/M
120.2083	1	D4857-M, Dart Wiper Deflector / S/N: 18833-1/18833-5 <i>15/11/20</i> <i>Sy</i>	5	ea

Thank you for your business.

Total Items: 5

SHIPPING VALUE

\$3,475.00

CERTIFICATE OF CONFORMANCE (SHORT FORM CUSTOMERS ONLY)

I certify that on _____, the Carbon by Design LP furnished the supplies or services called for by the Purchase Order Above via Delivery in accordance with all applicable requirements.

I further certify that the supplies or services are of the quality specified and conform in all respects with the contract requirements, including specifications, drawings, preservation, packaging, packing, marking requirements, and physical item identification, and are in the quantity shown in this or on the attached acceptance document.

Quality: _____

Date: _____

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